

UNCLASSIFIED

PERSONNEL RESOURCE INFORMATION MANAGEMENT
(PRIM)

SYSTEM INTEGRATION TEST REPORT

by

PRIM Project Team

ODP/ISD/MISG
OP/ID/ADRB

26 January 1984
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Chapter 1

PURPOSE

1.1 PURPOSE

The purpose of the System Integration Test Report is to advise on the releasability of the software for Release 1 of PRIM and to identify any outstanding discrepancies.

The SITR ensures that program/system specifications were interpreted correctly, coding standards and conventions were followed, procedures/functions were sufficiently tested by the programmers involved, integration test packets covering all appropriate areas were successfully tested, all project documentation is complete and accurate, and the procedures/functions perform as specified for acceptance by the user.

1.2 SCOPE

The SITR includes a summary of the procedures followed in testing the PRIM System, and the results obtained. Recommendations for disposition of the software are noted, and any discrepancies are listed.

The SITR consists of three chapters:

1. Introduction

This chapter presents the purpose and scope of the document and all references applicable to the contents of the SITR.

2. Summary

This chapter includes a summary of the methods and results of testing the PRIM System. Any exceptions to the testing procedures will be noted. Recommendations are also given as to disposition of the PRIM Software (e.g. release, conditional release, or retest).

3. Outstanding Discrepancies

This chapter provides a list of outstanding discrepancies of Release 1 of the PRIM System.

1.3 REFERENCES

Detailed System Requirements Document
Data Requirements Document
Requirements Traceability Matrix
Interface Control Document
System Definition Document
Preliminary System Design Specifications
Data Specifications Document
Detailed System Design Specifications

Chapter 2

SUMMARY

System Integration Testing was performed by a test team comprised of two OP analysts and two analysts from ODP. The test team thoroughly tested all procedures and system functions including user menus, data transfers, and security accesses.

All procedures were tested on the PRIMTEST development data base, using test data from the HRS development data base. Procedures were only moved to the PRIM production data base after they had been thoroughly tested, documented, and approved for production by all test team members.

The HRS2/PRIM Interface program, PRCAUPDT, was tested by Production Division using live data from HRS2, but executed from the test library (Bucket). After successfully executing PRCAUPDT outside the HRS2 jobstream to streamline any software and procedural problems, the program was moved to the production library, and integrated into the HRS2 Interface jobstream.

The test team met with Production Division personnel whenever necessary to discuss changes to run procedures and ensure the accuracy and timeliness of PRIM processing. Production was kept apprised of all changes to PRIM procedures immediately and in writing via either the AIM electronic mail system or DAC-Request forms.

System test cases were designed by analyzing requirement objectives and executed using user and program documentation. Test packets were created by the test team and distributed to the PRIM IOC participants to test system procedures and menus. The packets also served as an aid in acquainting the users with PRIM. Menu test cases were included in the packets which allowed the users to sign on to the system and execute user menus which tested security access procedures and transfer of employees' records from one Component to another. The test cases and results (good or bad) were then returned to the test team for analysis.

The accuracy of data transfers between HRS2 and PRIM was confirmed daily by the test team using data base statistic reports prepared by the Data Base Control Center.

Chapter 3

OUTSTANDING DISCREPANCIES

As the number of PRIM users increases some system degradation may occur if a large number of users attempt to signon to PRIM at the same time in the morning. An automatic link-building function is initiated by the first signon for a particular Org to PRIM each day. That user also has the option to request the creation of new ORGCODE and POSNR links for their ORG (these links are normally created over the weekend). Depending on the number of users trying to signon for the first time that day and/or establish links at the same time, the System could be temporarily degraded until the links are established. Directorate-level users require the most time to establish their links and are most likely to affect system availability at initial signon time. If this becomes a problem, another method of establishing ORG links may be necessary, such as having the DBCC establish the links overnight.

11 January 1984

MEMORANDUM FOR: Chief, Management Information
Systems Group

STATINTL FROM:
Chief, Information Division/OP

SUBJECT: PRIM Acceptance Test Report

1. This memorandum is written to signify that the software developed by ODP for the Personnel Resource Information Management System (PRIM Release 1) has been thoroughly tested and it is performing as specified. The project is acceptable to the Office of Personnel (OP) and it may be moved out of Development and into Support.

2. PRIM Release 1, which will be referred to as PRIM 1, has 14 procedures which retrieve information from the Human Resources System, HRS2; load the information to PRIM; segment the information to control user access; and, permit the easy display of data for the component users. Each of these procedures has been tested by the two OP representatives on the PRIM Development Team. Nine Initial Operating Capability (IOC) offices have also tested the user-oriented procedures. All of the procedures work as specified.

3. PRIM 1 contains eight major datalists or groups of datalists. These have been updated from HRS2 or generated since 1 July and they are all accurate based on daily compares that are made using database statistic reports generated from PRIM 1 and HRS2. Ad hoc validation checks are also made on individual records.

4. There are two main concerns that OP has regarding PRIM 1. The PRCALINK procedure requires up to 45 minutes to execute for Directorate users when they need to reestablish links. This may be too long and an alternative procedure may need to be developed. The PRCHGLOAD procedure which reads PERSIGN's Interface file continues to have difficulties with the data. However, all of the recent ABENDS were caused by data being passed by PERSIGN which did not meet the edit criteria for INTERFACE. PRCHGLOAD may ABEND on data problems occasionally over the next six months but it will probably be from inconsistencies in HRS2 rather than a PRCHGLOAD design error.

5. There are no outstanding discrepancies that are known at the present time. In summary, the OP personnel working on the PRIM 1 project agree that all of the procedures are working as specified. Enhancements may be requested after more users are given access to PRIM 1 and they need some enhancements which the OP DEMGR cannot provide. He will submit a form 930 for those changes/enhancements using normal procedures for projects in Production.

6. OP is very appreciative of the support which was given by ODP personnel during the development of PRIM 1.



STATINTL

ROUTING AND RECORD SHEET

SUBJECT: (Optional)

PRIM System Integration Test Report
PRIM Acceptance Test Report

FROM:

EXTENSION

NO.

PRIM Team

2-E-21

DATE

31 January 1984

STATINTL

TO: (Officer designation, room number, and building)

DATE

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

RECEIVED

FORWARDED

1. C/CSD/OC

ATT:

2-B-0

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CES M

DJA 2 Feb 84

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C/EAB

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15.

Please find attached the baselined PRIM System Integration Test Report and the Acceptance Test Report.

PRIM Release 1 responsibility has been transferred from ODP Development to ODP Support.

If you have any questions concerning the attached documents, please contact

3-4

STATINTL

Suggest we discontinue tracking this.
M